DYE PRIMER MATRIX STANDARDS

Product P/N 401114G
Insert P/N 4340088A
Printed in U.S.A.

For Research Use Only.
Not for use in diagnostic procedures.

These standards are used to generate the "multicomponent matrix" on the Applied Biosystems GENE SCANNER™ Model 362 Fluorescent Fragment Analyzer and Model 373A DNA Sequencing System. The Analysis software uses the multicomponent matrix to automatically analyze four different color fluorescent-dye-labeled samples in a single gel lane.

The ready-to-use kit contains one tube each of the FAM™ (blue/C), JOE™ (green/A), TAMRA™ (yellow/G), and ROX™ (red/T) matrix standards. Each standard contains 28 dye-labeled DNA fragments, ranging in size from 55 to 14,097 base pairs (native agarose gels) or from 37 to 14,079 bases (denaturing acrylamide gels). The standards are diluted with blue loading buffer for convenience in gel loading. The final concentrations are 0.5 nM for FAM and JOE, 2 nM for TAMRA, and 4 nM for ROX (dye concentrations are per double-stranded DNA fragment). Before use, mix each tube well and centrifuge to collect the liquid at the bottom. The standards are stable for six months at 2–6 °C (avoid freeze-thaw cycles).

GENE SCANNER/agarose application: Load 5 µL of standard per lane. Each standard must be loaded in a separate lane. Refer to the GENE SCANNER User's Manual for gel preparation and electrophoresis conditions. The matrix calculation is performed by the GENE SCANNER Analysis program, as described in the User's Manual.

Sequencing System/acrylamide application: For each standard, combine 2.5 µL of standard with 2.5 µL of formamide. Heat each standard/formamide mix at 90 °C for two minutes to denature before loading. Use a separate gel lane for each standard/formamide mix. (NOTE: DNA samples must not be stored in formamide for more than a few hours.) Refer to the 373A Sequencing System User's Manual for gel preparation and electrophoresis conditions. The matrix calculation is performed using either the Sequencer Analysis software or the 672 GENESCAN™ Analysis software (refer to the appropriate user's manual).

NOTE: For the phone number of Applied Biosystems technical support in your area, consult the GENE SCANNER User's Manual.

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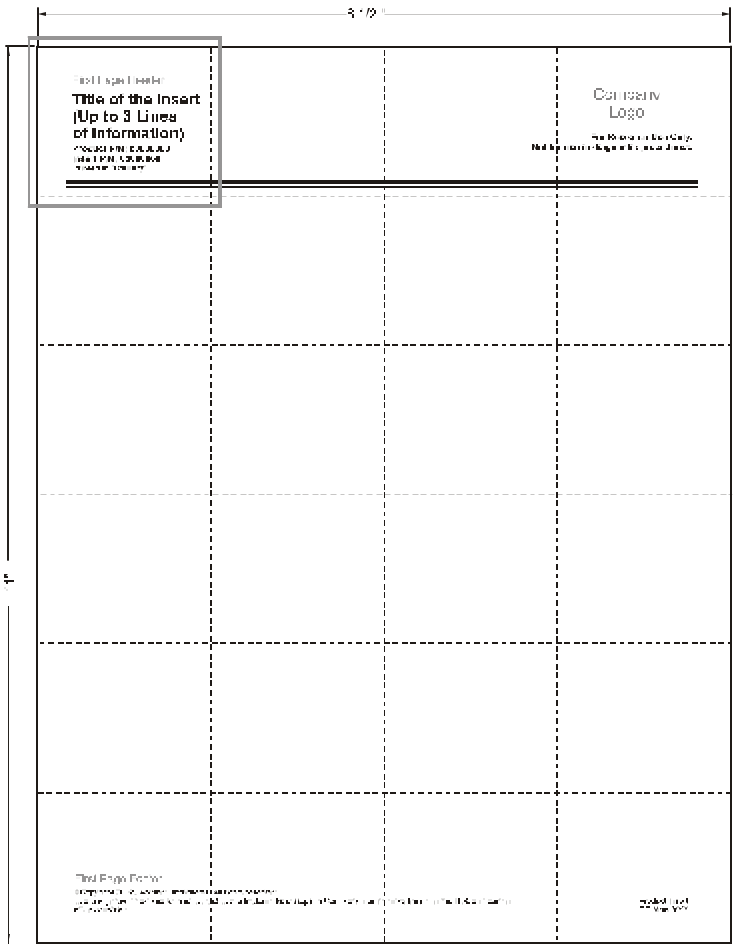
GUIDELINE, INSERT
FOLD INSTRUCTIONS

Notes :

1. Specification is intended for full and half sheet inserts, two sheet max.
2. Material: 50# Offset (White)
3. Dimensions: Full Sheet (8 ½" x 11") folded size = 1.833" x 2.125" +/-.125"
4. Dimensions: Half Sheet (5 ½" x 8 ½") folded size = 1.833" x 2.125" +/-.125"
5. Two sheet inserts to have pages 2 and 3 facing each other.
6. After final folding, upper left-hand corner of page 1 is to face out, with title and part number displayed.
7. Folded inserts to be packaged as follows:
   - Bundled in groups of 10ea.
   - Shrink-wrap 10ea groups for 100 inserts total.
   - Label shrink-wrapped bundles [Part# & Rev (font large enough to be legible at 8 feet), Qty, Manufacturer, and Barcode (#128), if appropriate].
   - Seal shrink-wrapped bundles in an appropriately sized corrugated shipper (not to exceed 25#, or have outside dimensions greater than 12" x 13 ½" x 4").
   - Appropriately label shipper [Part# & Rev (font large enough to be legible at 8 feet), Description, P.O.#, Qty, Mfg Date, Manufacturer, Country of Origin, and Barcode (#128) if appropriate] on at least one end panel (12" x 13 ½" side).

Folding instructions ARE NOT and MUST NOT BE PRINTED as part of this insert.



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